

**ULTRA FAST  
GLASS PASSIVATED RECTIFIERS**

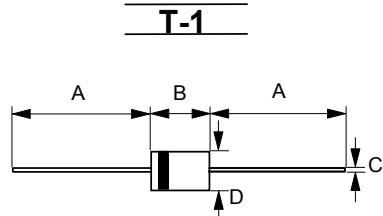
**REVERSE VOLTAGE - 200 to 1000 Volts  
FORWARD CURRENT - 1.0 Ampere**

**FEATURES**

- Glass passivated chip
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- Plastic material has UL flammability classification 94V-0

**MECHANICAL DATA**

- Case : Molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.004 ounces, 0.13 grams
- Mounting position : Any



T-1		
Dim.	Min.	Max.
A	25.4	-
B	2.60	3.20
C	0.53 $\varnothing$	0.64 $\varnothing$
D	2.20 $\varnothing$	2.60 $\varnothing$

All Dimensions in millimeter

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	UD3G	UD4G	UD5G	UD6G	UD7G	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>R</sub> RM	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>R</sub> MS	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>D</sub> C	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =55°C	I <sub>(AV)</sub>			1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	I <sub>FSM</sub>			30			A
Maximum forward Voltage at 1.0A DC	V <sub>F</sub>	1.0	1.3		1.7		V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>			5 100			uA
Maximum Reverse Recovery Time (Note 1)	T <sub>RR</sub>	50		75			ns
Typical Junction Capacitance (Note 2)	C <sub>J</sub>		10				pF
Typical Thermal Resistance (Note 3)	R <sub>θJC</sub> R <sub>θJA</sub>		20 100				°C/W
Storage / Operating Temperature Range	T <sub>STG</sub> , T <sub>J</sub>		-55 to +150				°C

NOTES : 1. Test condition of T<sub>RR</sub>:I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A.

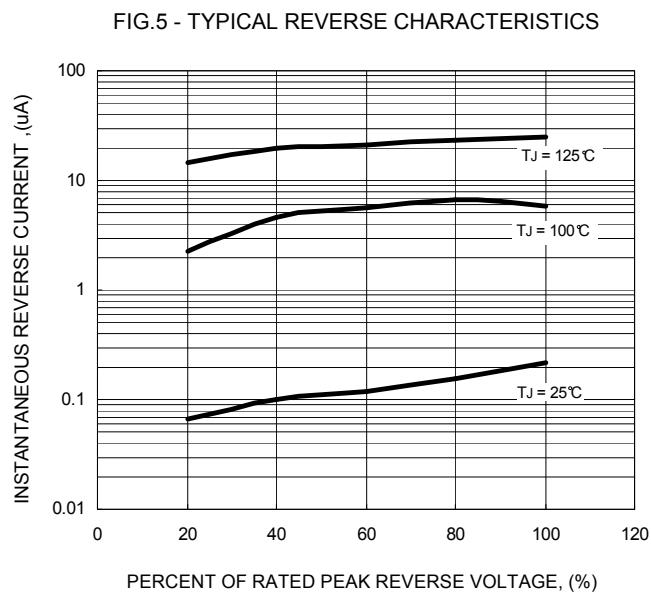
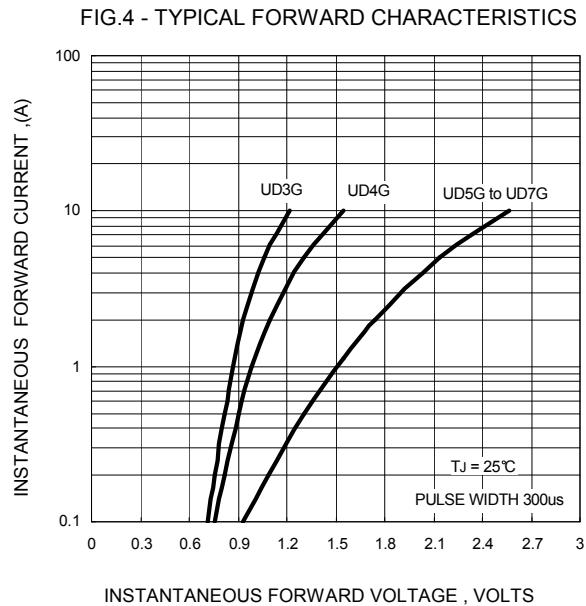
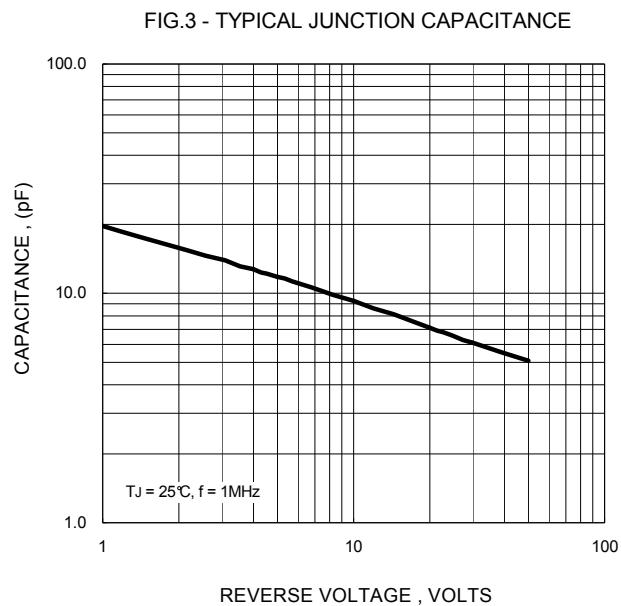
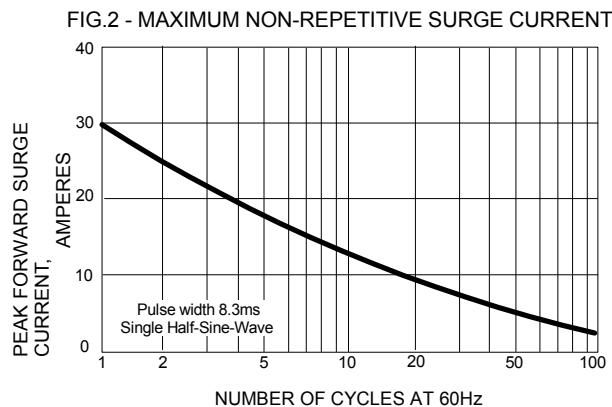
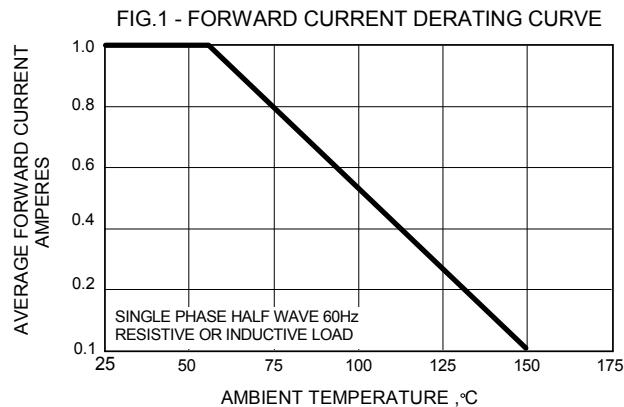
REV. 1, Sep-2010, KDFA01

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Case and Ambient.

**RATING AND CHARACTERISTIC CURVES**  
**UG3G thru UG7G**

**LITEON**



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